

User Guide - ENGLISH

FCC Compliance

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

Change or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

LASER STANDARD
IEC 60825-1:1993+A1:1997+A2:2001

WEEE

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product or their local government office for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

• Samsung Eco-mark
The Samsung's own Eco mark helps consumers to easily understand that Samsung develops eco-friendly products. This mark represents Samsung's continuous effort to develop eco-friendly products.

• RoHS
(Restriction of the use of certain hazardous substances in electrical and electronic equipment)
The RoHS, the environment regulation announced by European Union, restricts the use of lead, mercury, cadmium, hexavalent chromium, PBB, and PBDE in products put on the market in The European Union after July 1, 2006.

BG68-01447A REV.00

- <http://www.samsung-ODD.com>
- <http://www.samsung.com>

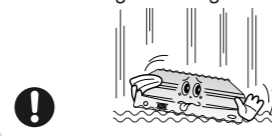
Safety Precautions

The following are basic precautions to ensure user safety and reduce the risk of property damage.

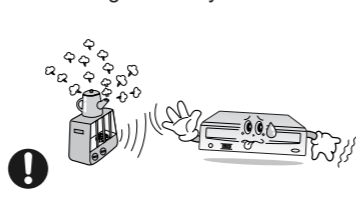
• When you install the drive

Place the drive on a level surface.

- Failure to do so may cause the device to fall onto a hard surface, resulting in damage or malfunction.

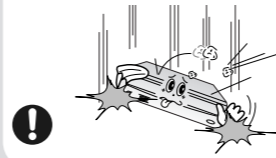


- Avoid high-humidity environments.

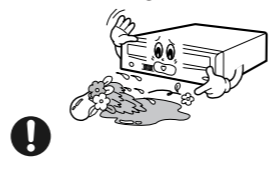


Do not drop the drive, and protect it from severe shocks.

- It can damage the drive or cause it to malfunction.

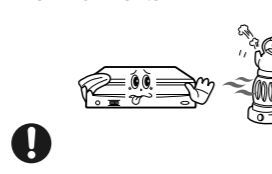


- Never allow food particles or foreign substances to enter the drive casing.

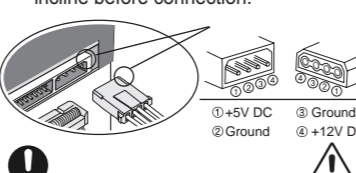


• While operating

- Avoid low- or high-temperature environments.



- If the power cable is not connected properly, it may cause a fire or damage the drive. Check the direction of the power connector and the drive incline before connection.



• Other

- Do not place the drive in direct sunlight.



Handle with caution to prevent damage from external shock.



- Any change or modification not expressly approved by designated qualified personnel could void your authority to operate this device.

Important to read and understand at all times

Do not disassemble

Warning/Caution



Warning: To warn the user that failure to comply with the instructions may result in serious injury or death.

Caution: To caution the user that failure to comply with the instructions may result in damage to property.

1. Check to see that the disc does not have a crack before use. If the disc has a crack (especially around the center hole), it is recommended that you make a copy immediately and use the copy instead. When a cracked disc is used continuously, the size of the crack is likely to grow and it will eventually result in irreparable damage to the disc.
2. Do not use low quality discs (i.e., illegal products, scratched or damaged discs).

Installing the Drive

System Requirements

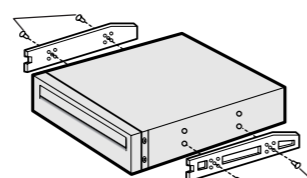
Intel Pentium 800MHz(or higher), 256 MB of RAM (or higher)with an EIDE interface, Windows 2000/ XP/ Vista

Installing the DVD Writer

How to install the DVD Writer on your PC. First, remove the cover; connect the cable to the DVD Writer and then to the PC.

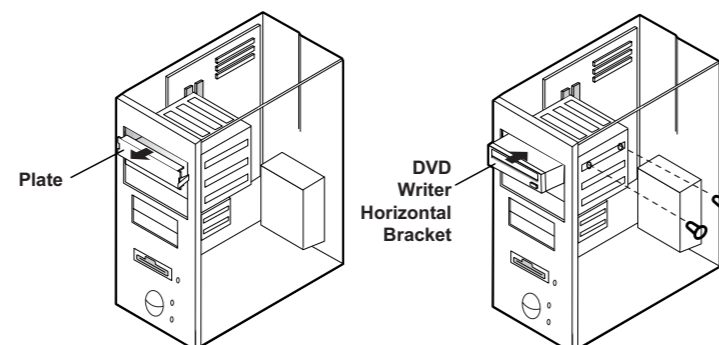
1 If necessary, attach a horizontal bracket to both sides of the drive.

- You can purchase these accessories separately from your computer dealer. (Screws for use: M3 X 6 X 4)



2 Remove the plate from a free expansion slot and install the DVD Writer, as shown in the illustration.

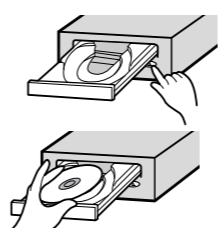
- If you have no free expansion slot, install the drive in place of the diskette drive.
- Make sure to use the standardized screws supplied (M3X6).
- To use screws other than M3X6 may result in malfunction.



Using the Drive/Storing and Cleaning Your Discs

Using the DVD Writer

- 1 Push the power button and boot the computer.
- 2 After booting the computer, open the disc compartment by pressing the Eject button.
- 3 Insert the disc (CD) with the label on the disc facing upwards and close the disc compartment by pressing the Eject button. The indicator light comes on.
- 4 Play the disc (CD).



Playing CD-DA/Audio CDs

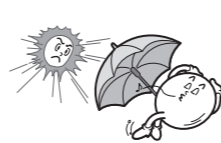
- Run the CD player program supplied with the sound card or play the Windows Media Player.

Playing Video CDs

- Follow the instructions provided with the disc.
- A video card or MPEG software and a sound card need to be installed to view video CDs.
- If the drive is vertically installed, you cannot use an 8 cm Mini Disc because the disc is movable.

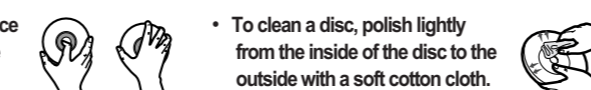
Storing Your Discs

- Do not place a disc in direct sunlight.
- Store a disc vertically in a well-ventilated and stable location.
- Do not write or attach a label on a disc.
- Do not drop a disc or place heavy objects on it.



Cleaning Your Discs

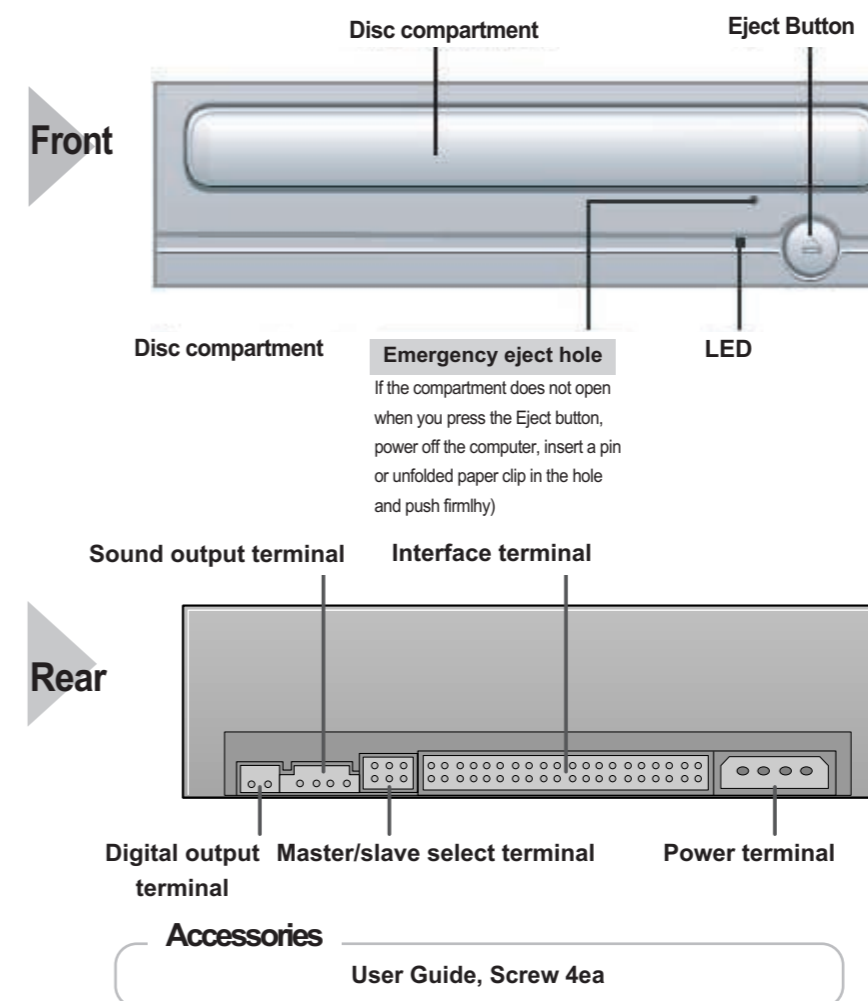
- Do not touch the surface of a disc; hold it by the edges.
- To clean a disc, polish lightly from the inside of the disc to the outside with a soft cotton cloth.



- The disc may not function properly if there are fingerprints, foreign substances or dust on the disc surface.

Introduction

- Design and specifications are subject to change without prior notice.

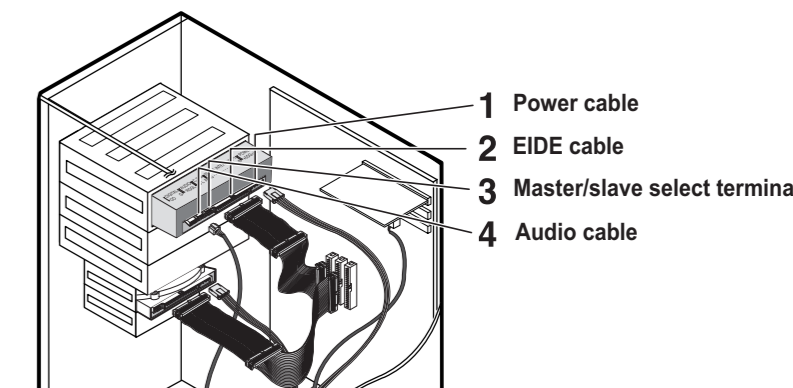


The type of accessories varies depending on a product model, and some accessories described herein are subject to change without notice.

* "40 Pin E-IDE cable and System requirements are available for 20X writing. But for Optimal 20X writing, 80pin E-IDE cable and Pentium IV 2.0GHz or faster are recommended."

Connecting the Cables to the DVD Writer

Connecting the Cables



1 Connecting the power cable

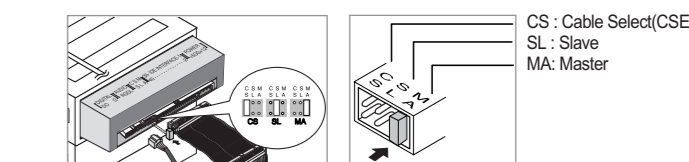
- The 4-pin power cable from the internal power unit of your computer must be connected to the power terminal at the rear of the DVD Writer.

2 Connecting the EIDE cable

- Insert the EIDE cable, which is connected to the hard disk to the interface terminal. (Place the red line of the cable close to the Pin 1.)

3 Installing a jumper on the master/slave select terminal

- Connect a jumper to the rear side of the DVD Writer. If the jumper is connected to MA (Master), it will work in the Master mode. If the jumper is connected to SL (Slave), it will work in the Slave mode. If the jumper is connected to CS (CSEL), you can control the device by using the host interface signal CSEL. (In general, connection to MA is recommended.)



4 Connecting the EIDE cable from a sound card

- Connect the 4-pin audio cable between the sound output terminal on the DVD Writer and the audio input terminal on the sound card.

Solving Technical Problems

- The friction noise generated during SPIN-UP and STOP is caused by the Automatic Ball Balancing System(ABS) and is not a malfunction.

The DVD Writer is not detected by the computer.

- Check that the power, audio and EIDE cables are correctly connected to the computer.
- Change the EIDE cable and reconnect it to the computer. Preferably, connect a second EIDE cable to the DVD Writer in master mode.
- Check the position of the jumper in the master/slave select terminal.

After installing the DVD Writer, the PC gets slower.

- Reinstall the device driver or update it with the latest version by downloading it from the Samsung Web site. - <http://www.samsung-ODD.com> - <http://www.samsung.com>

A CD is not read or is read too slowly.

- Check whether the CD is of good quality and clean it, if necessary.

The disc compartment will not open.

- Check that the power cable is correctly connected.
- Power off and disconnect the PC. Insert a pin or unfolded paper clip in the emergency hole and push firmly until the disc compartment opens.

When the MPEG software plays a Video CD, the pictures are not regular and the running speed is too slow.

- Adjust the size of the replay screen.
- After checking the display resolution, adjust it, if necessary.

The Disc is not in message is displayed even though a disc has been inserted.

- The computer may not recognize the disc if you start playback too quickly after inserting the disc. Open and close the disc compartment and try again.
- Clean the disc and try again.

The DVD Writer is not detected after it is connected to a sound card.

- The interface mode of the sound card is AT-BUS. You must therefore connect the DVD Writer to the EIDE port on the PC mother board, rather than to the sound card, or install an EIDE compatible sound card.

Technical Specifications

Category		SH-S202J(TS-H652J) DVD Writer	
DISC	Usable Discs	DVD : DVD-R, DVD-RW, DVD+R, DVD+RW, DVD-ROM, DVD-Video, DVD+R (Dual), DVD-R (Dual), DVD-RAM, DVD Multi-Border CD : CD-ROM, CD-R, CD-RW, CD-DA, CD+E(G), CD-MIDI, CD-TEXT, CD-ROM XA, Mixed Mode CD, CD-I, CD+Bridge (Photo-CD, Video-CD), Multisession CD (Photo-CD, CD-EXTRA, Portofino).	
	Disc Diameter	4.72 Inch or 3.15 Inch (120mm or 80mm)	
Interface Support	Interface Port	ATA/ATAPI (E-IDE)	
	PIO mode	PIO Mode 4: 16.6MB/sec	
	DMA mode	Ultra DMA Mode 4: 66MB/sec	
Access time (Random)	CD-ROM	110ms (Random)	
	DVD-ROM	130ms (Random)	
Data transfer rate(MAX)	Media Type	Write	Read
		DVD+R	CAV 20X
	DVD+RW	ZCLV 8X	CAV 12X
	DVD+R DUAL	ZCLV 16X	CAV 12X
	DVD-R DUAL	ZCLV 12X	CAV 12X
	DVD-R	CAV 20X	CAV 16X
	DVD-RW	CLV 6X	CAV 12X
	DVD-RAM	PCAV 12X	PCAV 12X
	DVD-ROM(Single)		CAV 16X
	DVD-ROM(Dual)		CAV 12X
	CD-ROM		CAV 48X
	CD-R	PCAV 48X	CAV 40X
US-RW	ZCLV32X	CAV 40X	
HS-RW	CLV 10X	CAV 40X	
CD-RW	CLV 4X	CAV 40X	
Buffer Memory	2MB		
Drive Installation	Horizontal / Vertical		
Operating Environment	Temperature	41°F ~ 122°F (5°C ~ 45°C)	
	Humidity	5% ~ 80% (RH)	
Size (Width x Height x Length)	5.83 X 1.65 X 6.69 Inch (148.2 X 42 X 170mm)		
Weight	750g		

* The product specifications above may be changed improve device performance without prior notice.

